



Superfund Site Activities Update

West County Road 112 Ground Water Site

Midland, Midland County, Texas October 2012

This Fact Sheet will tell you about...

- Current Investigation Activities
- Past Actions
- For More Information

Current Investigation Activities

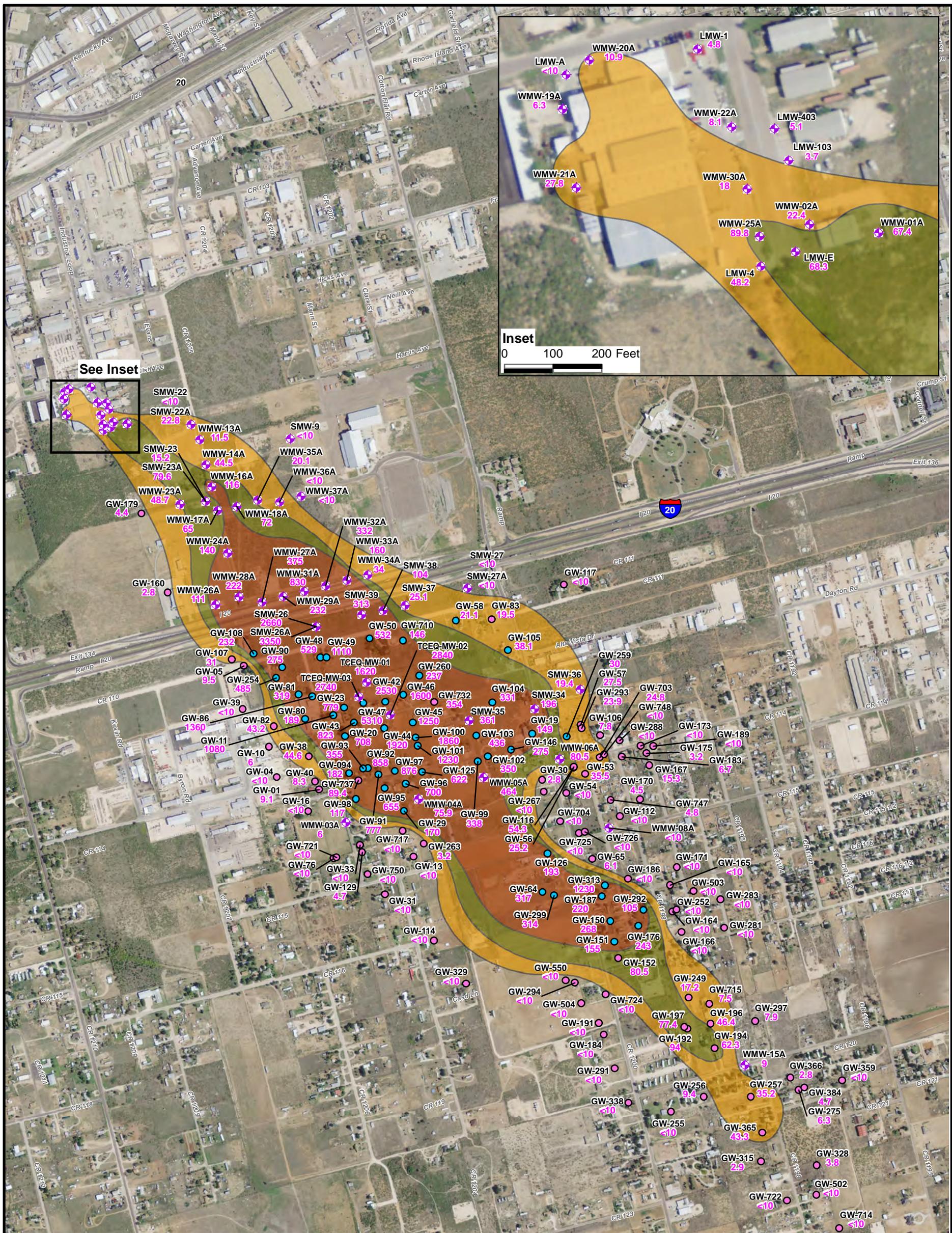
- The total chromium concentrations from the June 2012 site-wide ground water sampling event are plotted on the attached figure. The chromium concentration data was collected from private water supply wells, monitoring wells installed by the EPA, and other available monitoring wells in the area. The total length of the chromium plume exceeding the 100 micrograms per liter drinking water standard is approximately 1 ¼ miles. Chromium concentrations in ground water exceeding 10 micrograms per liter have been detected across an area approximately 2 miles in length. The ground water data represents the chromium concentrations present in the Ogallala aquifer or upper water bearing sands beneath the site.
- Letters were mailed to residents with the laboratory results for samples collected in June 2012 from their residential wells.
- The highest observed chromium concentrations remain south of the I-20 corridor in the private water supply wells. The maximum chromium concentration is 5,310 micrograms per liter in a well along West County Road 112.
- Chromium concentrations observed north of I-20 are significantly less. The maximum chromium concentration is 830 micrograms per liter in monitoring well WMW-31A located along the I-20 access road.
- A sampling plan is being developed to collect data on chromium concentrations in residential surface soil. The objective of the sampling is to determine if hexavalent chromium is accumulating in sur-

face soil as a result of past use of contaminated ground water to water yards and gardens at private residences. The initial sampling efforts will focus on residences located within the chromium plume between West County Road 110 and West County Road 114.

- A work plan is being developed to collect data on the physical characteristics of the Ogallala aquifer. This data will be used in the assessment of different alternatives for the cleanup of contaminated ground water.
- A pilot test work plan is being developed to assess a potential treatment alternative that can convert the mobile form of hexavalent chromium in the ground water to the immobile form of trivalent chromium. This treatment alternative uses injection wells to deliver commercially available products into the ground water for the treatment of the hexavalent chromium.
- The Texas Commission on Environmental Quality (TCEQ) has installed and maintains the treatment systems on wells that have been identified with chromium concentrations exceeding the drinking water standard of 100 micrograms per liter.

Past Actions

- EPA previously completed sampling of the private water supply wells in November 2010, April 2011, and May 2011. EPA completed installation of 35 monitoring wells during three separate events in May 2011, December 2011, and May 2012.
- The West County Road 112 Ground Water Site (Site) is a ground water plume of chromium/hexavalent chromium. The EPA published a rule in the *Federal Register* on March 10, 2011, placing the West County Road 112 Ground Water Plume Site on its National Priorities List (NPL). The NPL is EPA's list of uncontrolled or abandoned hazardous waste sites.



Explanation

- Monitoring well
- Sample location
- Sample location with filtration system
- Total Cr above 10 µg/L
- Total Cr above 50 µg/L
- Total Cr above 100 µg/L
- Well designation
- Total Chromium concentration (µg/L)



EA ENGINEERING,
SCIENCE, AND
TECHNOLOGY, INC.

WEST COUNTY ROAD 112
GROUND WATER PLUME SITE
MIDLAND COUNTY, TEXAS

**Concentrations of
Total Chromium in Ground Water
Ogallala (Shallow Zone) Aquifer
June - August 2012**

DESIGNED BY
DWR

DRAWN BY
CRS

CHECKED BY
DWR

SCALE
1:12,000

DATE
10/4/2012

PROJECT NO
1434265

FIGURE
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For more information on the Site:

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For press inquiries, please call the EPA Region 6
Press Office at 214.665.2200.

Information Repository

Midland County Public Library

301 W. Missouri Ave.

Midland, TX 79701

Phone: 432.688.4320

You can find more information about the Region 6
Superfund program on EPA's Region 6 Web Site:

<http://www.epa.gov/region6/superfund>.

Call U.S. EPA at 1.800.533.3508 to receive a Spanish
translation of this Fact Sheet.

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Datos, comuníquese con la Agencia de Protección del
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